Droput

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What is claimed is:

1. A communication control device comprising:

a plurality of layer control devices, each implementing part of protocol layer functions and together supporting a communication protocol; and a transmission line for interconnecting said plurality of layer control devices to enable data communication between said layer control devices.

- 2. A communication control device, as claimed in claim 1, wherein a plurality of physical layer control devices are provided, each implementing the function of a different physical layer, and one of said physical layer control devices is dynamically selected when performing communication.
- 3. A communication control device, as claimed in claim 1, wherein a physical layer control device for implementing the function of a physical layer is provided which is duplicated by another physical layer control device, and in the event of a failure of one physical layer control device, the other physical layer control device is switched in for operation.
- 4. A communication control device as claimed in claim 1, wherein a program necessary for the operation of each of said layer control devices is downloaded to said each layer control device.
- 5. A communication control device as claimed in claim 1, wherein said transmission line is a serial bus.
- 6. A communication control device as claimed in claim 5, wherein said serial bus is compliant with the USB standard.
- 7. A communication control device as claimed in claim 5, wherein said serial bus is compliant with the IEEE 1394 standard.

ADDAZ

